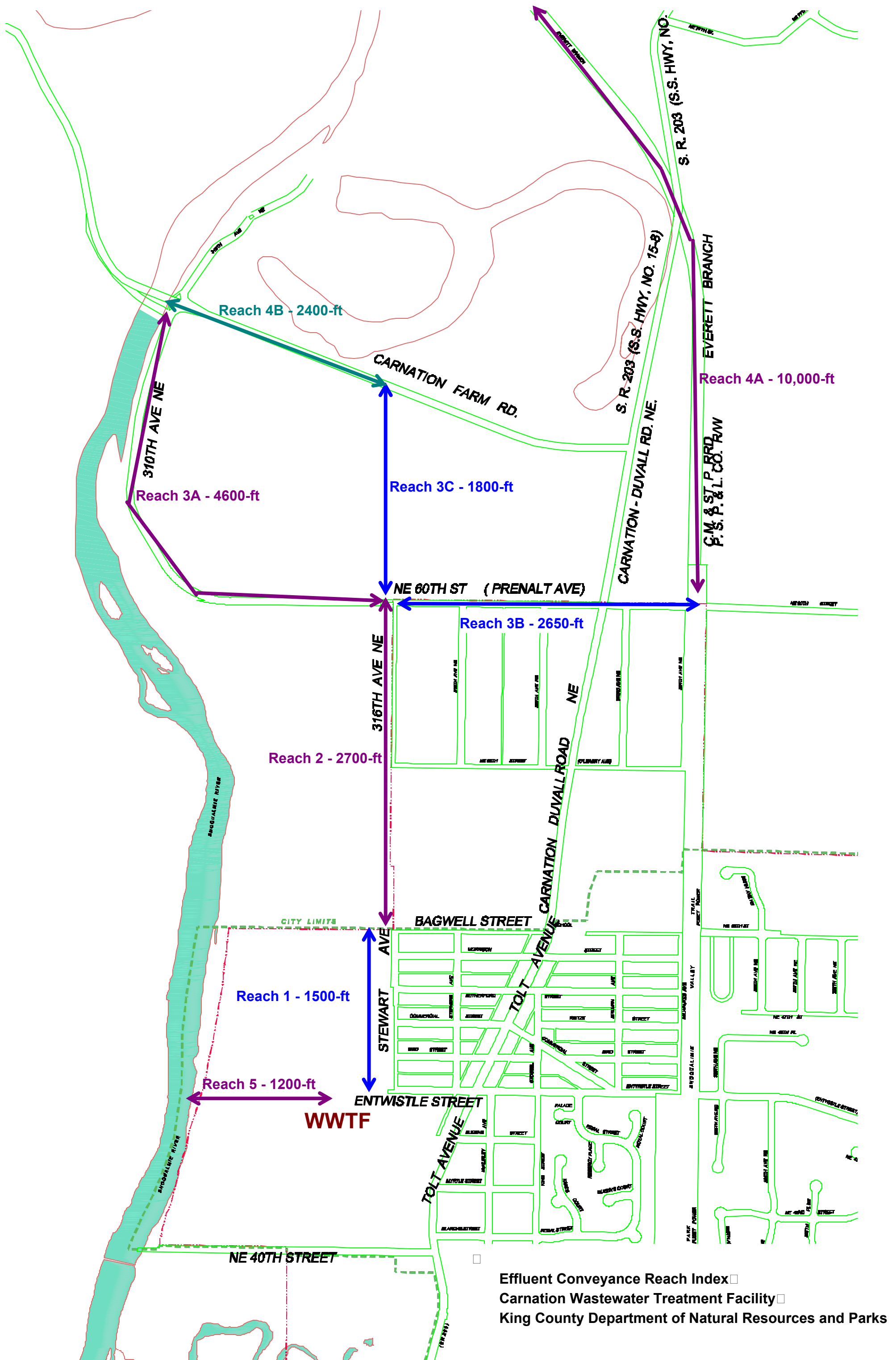


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**Conveyance Cost Estimate Support**





# DETAILED COST ESTIMATE

PROJECT : CARNATION WWTF

LOCATION FACTOR: 1.11

JOB # : 6620a10

DATE : 2/25/2005

LOCATION CARNATION, WA

BY : SML/AMP

ELEMENT : EFFLUENT CONVEYANCE REACH 1 (WWTF TO BAGWELL ST)

REVIEWED BY: \_\_\_\_\_

SPEC. NO.	DESCRIPTION	QUAN	UNIT	MATERIAL	LABOR	SUB	EQUIP	OTHER	UNIT COST	SUBTOTAL	TOTAL
<b>02000</b>	<b>SITWORK</b>										
	DEMOLITION										
	Pavement Cutting, 4" Thick	6,000	In Ft	\$0.00	\$0.00	\$0.18	\$0.18	\$0.00	\$0.40	\$2,398	
	Remove Asphalt Pavement	1,667	SY	\$0.00	\$0.00	\$0.68	\$0.00	\$0.00	\$0.75	\$1,258	
	Haul Asphalt Pavement to Landfill, 10 MI/EW	185	CY	\$0.00	\$0.00	\$7.35	\$0.00	\$0.00	\$8.16	\$1,511	
	Dispose AC (Tipping Fee)	185	CY	\$0.00	\$0.00	\$5.18	\$0.00	\$0.00	\$5.74	\$1,064	
	Total Demolition										\$6,230
	<b>EARTHWORK</b>										
<b>02318</b>	Trench Excavation	833	CY	\$0.00	\$0.00	\$10.00	\$0.00	\$0.00	\$11.10	\$9,250	
	Imported Fill (bed & zone fill, 50% above zone)	540	CY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$42.00	\$22,667	
	Native Fill (50% above zone)	250	CY	\$0.00	\$0.00	\$0.00	\$15.33	\$0.00	\$17.02	\$4,254	
	Dispose Trench Spoils, 10 Mi/RT	958	CY	\$0.00	\$0.00	\$5.13	\$0.00	\$0.00	\$5.69	\$5,457	
	Total Earthwork										\$41,629
	<b>PAVING</b>										
	4" AC Paving on Native Soil (ABC inc in Fill C	15,000	SF	\$0.00	\$0.00	\$2.48	\$0.00	\$0.00	\$2.75	\$41,292	
	General Contractor Markup on Sub	1	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$4,129.20	\$4,129.20	\$4,129	
	Total Paving										\$45,421
	Traffic Control Allowance	1	LS						\$5,000.00	\$5,000	\$5,000
<b>15000</b>	<b>MECHANICAL</b>										
	12" HDPE (SDR 17) Pipe, Butt-Weld Installed	1,500	LF	\$15.10	\$11.90	\$2.70	\$0.00	\$0.00	\$29.70	\$44,550	
											\$44,550
	<b>TOTAL DIRECT COST</b>										<b>\$142,830</b>

Cost per LF      **\$95**



# DETAILED COST ESTIMATE

PROJECT : CARNATION WWTF

LOCATION FACTOR: 1.11

JOB # : 6620a10

DATE : 2/25/2005

LOCATION CARNATION, WA

BY : SML/AMP

ELEMENT : EFFLUENT CONVEYANCE REACH 2 (BAGWELL ST TO NE 60TH)

REVIEWED BY: \_\_\_\_\_

SPEC. NO.	DESCRIPTION	QUAN	UNIT	MATERIAL	LABOR	SUB	EQUIP	OTHER	UNIT COST	SUBTOTAL	TOTAL
<b>02000</b>	<b>SITWORK</b>										
	Trench Excavation (Open Cut)	1,500	CY	\$0.00	\$0.00	\$10.00	\$0.00	\$0.00	\$11.10	\$16,650.00	
	Imported Fill (bed, zone, 25% of fill above zone)	746	CY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$42.00	\$31,351.33	
	Native Backfill (75% of fill above zone)	675	CY	\$0.00	\$0.00	\$0.00	\$15.33	\$0.00	\$17.02	\$11,486.00	
	Dispose Trench Spoils, 10 Mi/RT	949	CY	\$0.00	\$0.00	\$5.13	\$0.00	\$0.00	\$5.69	\$5,402.47	
	Gravel Road Allowance	3,000	SY	\$6.25	\$0.37	\$0.00	\$0.54	\$0.00	\$7.95	\$23,842.80	
	Dewatering Allowance	0	LF	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$20.00	\$0.00	
	Total Earthwork										\$88,733
<b>15000</b>	<b>MECHANICAL</b>										
	12" HDPE (SDR 17) Pipe, Butt-Weld Installed	2,700	LF	\$15.10	\$11.90	\$2.70	\$0.00	\$0.00	\$29.70	\$80,190	
	Total HDPE Pipe										\$80,190
	<b>TOTAL DIRECT COST</b>										<b>\$168,923</b>

Cost LF \$63



# DETAILED COST ESTIMATE

PROJECT : CARNATION WWTF

LOCATION FACTOR: 1.11

JOB # : 6620a10

DATE : 2/25/2005

LOCATION CARNATION, WA

BY : SML/AMP

ELEMENT : EFFLUENT CONVEYANCE REACH 3A (NE 60TH ST TO OUTFALL)

REVIEWED BY:

SPEC. NO.	DESCRIPTION	QUAN	UNIT	MATERIAL	LABOR	SUB	EQUIP	OTHER	UNIT COST	SUBTOTAL	TOTAL
<b>02000</b>	<b>SITWORK</b>										
	DEMOLITION										
	Pavement Cutting, 4" Thick	18,400	In Ft	\$0.00	\$0.00	\$0.18	\$0.18	\$0.00	\$0.40	\$7,353	
	Remove Asphalt Pavement	5,111	SY	\$0.00	\$0.00	\$0.68	\$0.00	\$0.00	\$0.75	\$3,858	
	Haul Asphalt Pavement to Landfill, 10 MI/EW	568	CY	\$0.00	\$0.00	\$7.35	\$0.00	\$0.00	\$8.16	\$4,633	
	Dispose AC (Tipping Fee)	568	CY	\$0.00	\$0.00	\$5.18	\$0.00	\$0.00	\$5.74	\$3,262	
	Total Demolition										\$19,106
	<b>EARTHWORK</b>										
<b>02318</b>	Trench Excavation	2,556	CY	\$0.00	\$0.00	\$10.00	\$0.00	\$0.00	\$11.10	\$28,367	
	Imported Fill (bed & zone fill, 50% above zone)	1,655	CY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$42.00	\$69,513	
	Native Fill (50% above zone)	767	CY	\$0.00	\$0.00	\$0.00	\$15.33	\$0.00	\$17.02	\$13,046	
	Dispose Trench Spoils, 10 Mi/RT	2,939	CY	\$0.00	\$0.00	\$5.13	\$0.00	\$0.00	\$5.69	\$16,735	
	Total Earthwork										\$127,661
	<b>PAVING</b>										
	4" AC Paving on Native Soil (ABC inc in Fill C	46,000	SF	\$0.00	\$0.00	\$2.48	\$0.00	\$0.00	\$2.75	\$126,629	
	General Contractor Markup on Sub	1	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$12,662.88	\$12,662.88	\$12,663	
	Total Paving										\$139,292
	Traffic Control Allowance	1	LS						\$10,000.00	\$10,000	\$10,000
<b>15000</b>	<b>MECHANICAL</b>										
	12" HDPE (SDR 17) Pipe, Butt-Weld Installed	4,600	LF	\$15.10	\$11.90	\$2.70	\$0.00	\$0.00	\$29.70	\$136,620	
											\$136,620
	<b>TOTAL DIRECT COST</b>										<b>\$432,678</b>

Cost per LF \$95



# DETAILED COST ESTIMATE

PROJECT : CARNATION WWTF

LOCATION FACTOR: 1.11

JOB # : 6620a10

DATE : 2/24/2005

LOCATION CARNATION, WA

BY : SML/AMP

ELEMENT : EFFLUENT CONVEYANCE REACH 3B (NE 60TH ST TO SNOQUALMIE VALLEY TRAIL)

REVIEWED BY:

SPEC. NO.	DESCRIPTION	QUAN	UNIT	MATERIAL	LABOR	SUB	EQUIP	OTHER	UNIT COST	SUBTOTAL	TOTAL
<b>02000</b>	<b>SITWORK</b>										
	DEMOLITION										
	Pavement Cutting, 4" Thick	10,600	In Ft	\$0.00	\$0.00	\$0.18	\$0.18	\$0.00	\$0.40	\$4,236	
	Remove Asphalt Pavement	2,944	SY	\$0.00	\$0.00	\$0.68	\$0.00	\$0.00	\$0.75	\$2,222	
	Haul Asphalt Pavement to Landfill, 10 MI/EW	327	CY	\$0.00	\$0.00	\$7.35	\$0.00	\$0.00	\$8.16	\$2,669	
	Dispose AC (Tipping Fee)	327	CY	\$0.00	\$0.00	\$5.18	\$0.00	\$0.00	\$5.74	\$1,879	
	Total Demolition										\$11,007
	<b>EARTHWORK</b>										
<b>02318</b>	Trench Excavation	1,472	CY	\$0.00	\$0.00	\$10.00	\$0.00	\$0.00	\$11.10	\$16,342	
	Imported Fill (bed & zone fill, 50% above zone)	953	CY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$42.00	\$40,046	
	Native Fill (50% above zone)	442	CY	\$0.00	\$0.00	\$0.00	\$15.33	\$0.00	\$17.02	\$7,516	
	Dispose Trench Spoils, 10 Mi/RT	1,693	CY	\$0.00	\$0.00	\$5.13	\$0.00	\$0.00	\$5.69	\$9,641	
	Total Earthwork										\$73,544
	<b>PAVING</b>										
	4" AC Paving on Native Soil (ABC inc in Fill C	26,500	SF	\$0.00	\$0.00	\$2.48	\$0.00	\$0.00	\$2.75	\$72,949	
	General Contractor Markup on Sub	1	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$7,294.92	\$7,294.92	\$7,295	
	Total Paving										\$80,244
	Traffic Control Allowance	1	LS						\$10,000.00	\$10,000	\$10,000
<b>15000</b>	<b>MECHANICAL</b>										
	12" HDPE (SDR 17) Pipe, Butt-Weld Installed	2,650	LF	\$15.10	\$11.90	\$2.70	\$0.00	\$0.00	\$29.70	\$78,705	
											\$78,705
	<b>TOTAL DIRECT COST</b>										<b>\$253,499</b>

Cost per LF

\$96



# DETAILED COST ESTIMATE

PROJECT : CARNATION WWTF

LOCATION FACTOR: 1.11

JOB # : 6620a10

DATE : 3/11/2005

LOCATION CARNATION, WA

BY : SML

ELEMENT : EFFLUENT CONVEYANCE REACH 3C (NE 60TH TO CARNATION FARM ROAD)

REVIEWED BY: \_\_\_\_\_

SPEC. NO.	DESCRIPTION	QUAN	UNIT	MATERIAL	LABOR	SUB	EQUIP	OTHER	UNIT COST	SUBTOTAL	TOTAL
<b>02000</b>	<b>SITWORK</b>										
	Trench Excavation (Open Cut)	1,000	CY	\$0.00	\$0.00	\$10.00	\$0.00	\$0.00	\$11.10	\$11,100.00	
	Imported Fill (bed, zone, 25% of fill above zone)	498	CY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$42.00	\$20,900.89	
	Native Backfill (75% of fill above zone)	450	CY	\$0.00	\$0.00	\$0.00	\$15.33	\$0.00	\$17.02	\$7,657.34	
	Dispose Trench Spoils, 10 Mi/RT	633	CY	\$0.00	\$0.00	\$5.13	\$0.00	\$0.00	\$5.69	\$3,601.64	
	Gravel Road Allowance	2,000	SY	\$6.25	\$0.37	\$0.00	\$0.54	\$0.00	\$7.95	\$15,895.20	
	Dewatering Allowance	0	LF	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$20.00	\$0.00	
	Total Earthwork										\$59,155
<b>15000</b>	<b>MECHANICAL</b>										
	12" HDPE (SDR 17) Pipe, Butt-Weld Installed	1,800	LF	\$15.10	\$11.90	\$2.70	\$0.00	\$0.00	\$29.70	\$53,460	
	Total HDPE Pipe										\$53,460
	<b>TOTAL DIRECT COST</b>										<b>\$112,615</b>

Cost LF \$63



# DETAILED COST ESTIMATE

PROJECT : CARNATION WWTF

LOCATION FACTOR: 1.11

JOB # : 6620a10

DATE : 2/25/2005

LOCATION CARNATION, WA

BY : SML/AMP

ELEMENT : EFFLUENT CONVEYANCE REACH 4A (Snoqualmie Valley Trail)

REVIEWED BY:

SPEC. NO.	DESCRIPTION	QUAN	UNIT	MATERIAL	LABOR	SUB	EQUIP	OTHER	UNIT COST	SUBTOTAL	TOTAL
<b>02000</b>	<b>SITEWORK</b>										
	Trench Excavation (Open Cut)	5,556	CY	\$0.00	\$0.00	\$10.00	\$0.00	\$0.00	\$11.10	\$61,666.67	
	Imported Fill (bed & zone)	1,931	CY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$42.00	\$81,116.03	
	Native Backfill (fill above zone)	3,333	CY	\$0.00	\$0.00	\$0.00	\$15.33	\$0.00	\$17.02	\$56,721.00	
	Dispose Trench Spoils, 10 Mi/RT	2,556	CY	\$0.00	\$0.00	\$5.13	\$0.00	\$0.00	\$5.69	\$14,552.10	
	Gravel Road Allowance	11,111	SY	\$6.25	\$0.37	\$0.00	\$0.54	\$0.00	\$7.95	\$88,306.67	
	Dewatering Allowance	0	LF	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$20.00	\$0.00	
	Total Earthwork										\$302,362
<b>15000</b>	<b>MECHANICAL</b>										
	12" HDPE (SDR 17) Pipe, Butt-Weld Installed	10,000	LF	\$15.10	\$11.90	\$2.70	\$0.00	\$0.00	\$29.70	\$297,000	
	Total HDPE Pipe										\$297,000
	<b>TOTAL DIRECT COST</b>										<b>\$599,362</b>

Cost per LF \$60



# DETAILED COST ESTIMATE

PROJECT : CARNATION WWTF

LOCATION FACTOR: 1.11

JOB # : 6620a10

DATE : 3/11/2005

LOCATION CARNATION, WA

BY : SML

ELEMENT : EFFLUENT CONVEYANCE REACH 4B (CARNATION FARM ROAD TO OUTFALL)

REVIEWED BY:

SPEC. NO.	DESCRIPTION	QUAN	UNIT	MATERIAL	LABOR	SUB	EQUIP	OTHER	UNIT COST	SUBTOTAL	TOTAL
<b>02000</b>	<b>SITWORK</b>										
	DEMOLITION										
	Pavement Cutting, 4" Thick	9,600	In Ft	\$0.00	\$0.00	\$0.18	\$0.18	\$0.00	\$0.40	\$3,836	
	Remove Asphalt Pavement	2,667	SY	\$0.00	\$0.00	\$0.68	\$0.00	\$0.00	\$0.75	\$2,013	
	Haul Asphalt Pavement to Landfill, 10 Mi/EW	296	CY	\$0.00	\$0.00	\$7.35	\$0.00	\$0.00	\$8.16	\$2,417	
	Dispose AC (Tipping Fee)	296	CY	\$0.00	\$0.00	\$5.18	\$0.00	\$0.00	\$5.74	\$1,702	
	Total Demolition										\$9,968
	<b>EARTHWORK</b>										
<b>02318</b>	Trench Excavation	1,333	CY	\$0.00	\$0.00	\$10.00	\$0.00	\$0.00	\$11.10	\$14,800	
	Imported Fill (bed & zone fill, 50% above zone)	864	CY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$42.00	\$36,268	
	Native Fill (50% above zone)	400	CY	\$0.00	\$0.00	\$0.00	\$15.33	\$0.00	\$17.02	\$6,807	
	Dispose Trench Spoils, 10 Mi/RT	1,533	CY	\$0.00	\$0.00	\$5.13	\$0.00	\$0.00	\$5.69	\$8,731	
	Total Earthwork										\$66,606
	<b>PAVING</b>										
	4" AC Paving on Native Soil (ABC inc in Fill C	24,000	SF	\$0.00	\$0.00	\$2.48	\$0.00	\$0.00	\$2.75	\$66,067	
	General Contractor Markup on Sub	1	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$6,606.72	\$6,606.72	\$6,607	
	Total Paving										\$72,674
	Traffic Control Allowance	1	LS						\$10,000.00	\$10,000	\$10,000
<b>15000</b>	<b>MECHANICAL</b>										
	12" HDPE (SDR 17) Pipe, Butt-Weld Installed	2,400	LF	\$15.10	\$11.90	\$2.70	\$0.00	\$0.00	\$29.70	\$71,280	
											\$71,280
	<b>TOTAL DIRECT COST</b>										<b>\$230,528</b>

Cost per LF

\$96



# DETAILED COST ESTIMATE

PROJECT : CARNATION WWTF

LOCATION FACTOR: 1.11

JOB # : 6620a10

DATE : 3/10/2005

LOCATION CARNATION, WA

BY : SML

ELEMENT : EFFLUENT CONVEYANCE REACH 5 (WWTF to SNOQ RIVER AT TOLT MACDONALD PARK)

REVIEWED BY: \_\_\_\_\_

SPEC. NO.	DESCRIPTION	QUAN	UNIT	MATERIAL	LABOR	SUB	EQUIP	OTHER	UNIT COST	SUBTOTAL	TOTAL
<b>02000</b>	<b>SITWORK</b>										
	Trench Excavation (Open Cut)	667	CY	\$0.00	\$0.00	\$10.00	\$0.00	\$0.00	\$11.10	\$7,400.00	
	Imported Fill (bed, zone, 25% of fill above zone)	332	CY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$42.00	\$13,933.92	
	Native Backfill (75% of fill above zone)	300	CY	\$0.00	\$0.00	\$0.00	\$15.33	\$0.00	\$17.02	\$5,104.89	
	Dispose Trench Spoils, 10 Mi/RT	422	CY	\$0.00	\$0.00	\$5.13	\$0.00	\$0.00	\$5.69	\$2,401.10	
	Gravel Road Allowance	1,200	SY	\$6.25	\$0.37	\$0.00	\$0.54	\$0.00	\$7.95	\$9,537.12	
	Dewatering Allowance	0	LF	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$20.00	\$0.00	
	Total Earthwork										\$38,377
<b>15000</b>	<b>MECHANICAL</b>										
	12" HDPE (SDR 17) Pipe, Butt-Weld Installed	1,200	LF	\$15.10	\$11.90	\$2.70	\$0.00	\$0.00	\$29.70	\$35,640	
	Total HDPE Pipe										\$35,640
	<b>TOTAL DIRECT COST</b>										<b>\$74,017</b>

Cost LF      \$62



LOCATION FACTOR: 1.11

DATE : 2/25/2005

BY : SML

REVIEWED BY: \_\_\_\_\_

[illegible]

**DETAILED COST ESTIMATE**PROJECT : CARNATION WWTFLOCATION FACTOR: 1.11JOB # : 6620a10DATE : 2/25/2005LOCATION CARNATION, WABY : BJEELEMENT : OUTFALL SUPPORTED FROM CARNATION FARM ROAD BRIDGE

REVIEWED BY: \_\_\_\_\_

SPEC. NO.	DESCRIPTION	QUAN	UNIT	UNIT COST	SUBTOTAL	TOTAL
	8" DI SUPPORTED FROM BRIDGE (PIPE & INSTALLATI	280	LF	\$300.00	\$84,000	
	8" DI VERTICAL PIPING (PIPE & INSTALLATION)	1	LS	\$20,000.00	\$20,000	
	IN-WATER WORK	1	LS	\$80,000.00	\$80,000	
						\$184,000
	<b>TOTAL DIRECT COST</b>					<b>\$184,000</b>



**LOCATION FACTOR:** 1.11

**DATE :** 2/25/2005

**BY :** SML

REVIEWED BY: \_\_\_\_\_

SPEC. NO.	DESCRIPTION	QUAN	UNIT	UNIT COST	SUBTOTAL	TOTAL
	8" DI PIPING (PIPE & INSTALLATION)	35	LF	\$16.65	\$583	583
	OUTFALL SUPPORT	1	LS	\$80,000.00	\$80,000	80,000
	IN-WATER WORK	1	LS	\$100,000.00	\$100,000	100000
	<b>TOTAL DIRECT COST</b>					<b>\$181,000</b>